
Unified Build Core (TMS/UCP) 3.0.2.5

Version Description Document

1. System Overview

The Unified Build (UB) is derived from a command and control system originally designed for the afloat Navy's JOTS (Joint Operational Tactical System). As JOTS expanded to meet the needs of both the afloat and ashore Navy-related communities, it was identified as the Unified Build. The present day UB is the result of combining automated Command, Control, Communications, Computers, and Intelligence (C4I) components, Common Operating Environment, and other vital software to fulfill Joint community requirements.

The Unified Build, consisting of the Track Management System (TMS) and the Universal Communications Processor (UCP), forms the core of a C4I system which interfaces to a variety of military communications and computer systems. UB is designed to meet the unique tactical situation assessment, data fusion, and display needs of battle group and force commanders, subordinate warfare commanders, ship commanding officers, and shore command centers.

The UB concept evolved as the result of various C4I initiatives over a period of several years and culminated with the development of a command and control system in which specific applications are built on top of a ~~Asuperset~~ of core software. The core software includes track database management, communications interfaces, message processing, track correlation, database management, and tactical display capabilities. A system fielded using UB to provide core services is usually installed on workstations across a local area network (LAN) and a wide area network (WAN), where operators perform certain tasks.

The host computers for the Defense Information Infrastructure (DII) Common Operating Environment (COE) are the Tactical Advanced Computer, version 3/4 (TAC-3/TAC-4) with the HP-UX 10.20 operating system and the Sparc 10/20 with Solaris 2.5.1 operating system.

2. Applicable Documents

All documents are being reissued with this software release. See Section 3.1, Inventory of Materials Released, for an itemized list.

3. Version Description

3.1 Inventory of Materials Released

Magnetic media:

The UB Core Version 3.0.2.5 Segment on a 4mm DAT cartridge is intended for:

- ! TAC-3/TAC-4 hardware environment. The UB Core version 3.0.2.5 segment can be run on DII COE Kernel Version 3.0.1.0 supporting HP-UX 10.20.

The UB Core Version 3.0.2.5 Segment on an 8mm EXABYTE cartridge is intended for:

- ! Sparc 10/20 hardware environment. The UB Core version 3.0.2.5 segment can be run on DII COE Kernel Version 3.0.0.3P2 supporting Solaris Operating System Version 2.5.1.

Documents:

- ! Installation Procedures for the UB Segment of Unified Build (UB) 3.0.2.5 (UB3.0.2.5:IP1.0 4/14/97)
- ! Software User's Manual Unified Build 3.0.2.5 (TMS/UCP) (UB3.0.2.5:SUM1.0 4/14/97)
- ! System Administrator's Manual Unified Build 3.0.2.5 (TMS/UCP) (UB3.0.2.5:SAM1.0 4/14/97)
- ! Unified Build (UB) 3.0.2.5 System Test Report (UB3.0.2.5:STR1.0 4/14/97)
- ! Unified Build Core (TMS/UCP) 3.0.2.5 Version Description Document (UB3.0.2.5:VDD1.0 4/14/97)

3.2 Software Changes

The following software trouble reports (STRs) and software change proposals (SCPs) have been implemented in DII COE UB Version 3.0.2.5.

D70040

Flawed logic for "PEN" processing, part 1.

Problem:

This issue is related to SCP UB08979. PEN stands for parametrically-ordered ELINT notation, and applies to the reporting of a set of navigation radars. A PEN is of the form "nnnna," where "n" is an integer and "na" is the radar function code. These ELNOTS are handled incorrectly with respect to LZIP equivalence processing. Any received contact report containing a PEN not listed in the ELNOT Version Table should use default ELINT parameter tolerances, but not use LZIP equivalence. Currently, any received PEN not explicitly listed in the ELNOT Version Table is treated as an LZIP. This can result in the automatic correlation of, for instance, a merchant vessel navigation radar with a land-based early warning radar. This behavior is not observed for ELNOTS of the standard "xnnny" format, where "x" and "y" are letters. Need for change: Problem discovered during training week of 14 Oct. CCB Comments/History LCCB 10/30/96: Accepted and awaiting build plan assignment from the CCB. 12/13/96: UB09080 validated as open in 3.0.2.3 per K. Phillips.

Action:

Fixed in 3.0.2.5. Corrected to allow PENs to be correctly treated as KOP equivalent rather than L0000 equivalent.

Agency #:

DU00570

INRI #:

30200000594

D70041

Flawed logic for "PEN" processing, part 2.

Problem:

This issue is related to SCP UB08979. PEN stands for parametrically-ordered ELINT notation, and applies to the reporting of a set of navigation radars. A PEN is of the form "nnnna," where "n" is an integer and "na" is the radar function code. These ELNOTS are handled incorrectly with respect to K-O-P equivalence processing. Given two contact reports, both with ELNOTS listed in the ELNOT Version Table, both with K-O-P equivalence deactivated, one a PEN and the other a military ship radar, the contact reports will correlate if the ELINT parameters and ellipses pass the appropriate mathematical checks. This automatic correlation of military and merchant radars is unacceptable. This behavior is not observed for PENs and land- or air-based ELNOTS. Need for change: Problem discovered during training the week of 14 Oct. CCB comments/history LCCB 10/30/96: Accepted and awaiting build plan assignment from the CCB. 12/13/96: UB09081 validated as open in 3.0.2.3 per K. Phillips.

Action:

Fixed in 3.0.2.5. Corrected to allow PENs to be correctly treated as KOP equivalent rather than L0000 equivalent.

Agency #:

DU00571

INRI #:

30200000595

D70042

Basebanding error, NU-TRK function from ELINT History window.

Problem:

When performing the NU-TRK pop-up menu function for one or more contact reports in an ELINT track history window, the resulting ELINT tracks can contain incorrect ELINT stats data. For the case of a NU-TRKed single contact report, which correlated using basebanded values, the resulting new ELINT track's edit window will display ELINT stats corresponding to the average basebanded values of the original track rather than the reported values for the contact report at hand. Require that contact reports used to create new ELINT tracks via the history window's NU-TRK pop-up menu option disregard any basebanding calculations used for the originating ELINT track. Need for change: Problem discovered during training the week of 28 Oct. CCB comments/history LCCB 11/13/96: Accepted and awaiting build plan assignment from the CCB. 12/13/96: UB09082 validated as open in 3.0.2.3 per K. Phillips.

Action:

Fixed in 3.0.2.5. Corrected two problems with the ELINT Stats

window: (1) NUM-PRI, NUM-SCAN, NUM-RF were incorrectly incremented if an OK was selected and only one history report existed, and (2) corrected the NU-TRK function to use only one report (the latest) when more than one exists.

Agency #: DU00572
INRI #: 30200000596

D70043 ELINT track history window error, SCAN field.

Problem: In the ELINT track history window, the SCAN field shows basebanded scan rather than reported scan if the SBB field does not equal REP. The BB SCAN field correctly shows basebanded scan in all cases. Require the SCAN field to show reported scan regardless of the type of basebanding used for a contact report. Need for change: Problem discovered during training the week of 28 Oct. CCB comments/history LCCB 11/13/96: Accepted and awaiting build plan assignment from the CCB. 12/13/96: UB09083 validated as open in 3.0.2.3 per K. Phillips.

Action: Fixed in 3.0.2.5. Corrected problem where the ELINT history window displayed basebanded scan rate instead of scan rate.

Agency #: DU00573
INRI #: 30200000597

D70046 New track (NU-TRK) of Acoustic tracks no longer working.

Problem: JMCIS /DU00584/43 A parent Platform track is no longer created When the NU-TRK option is selected from an Acoustic track's edit pop-up menu, or when NU TRACK option is selected from an Acoustic track geo pop-up menu. The system goes through the steps: Scope and Type window is displayed; when ok'd, an OTH real-world track window is displayed. But a parent Platform track is not created. This worked in version 3.0.2.0 and represents a loss of capability. This STR is related to INRI STR 3020000296. CCB comments/history 12/16/96 LCCB action, transferred from DJ00054.

Action: Verified in 3.0.2.5.

Agency #: DU00584
INRI #: 30200000600

D70067 System transmitted an invalid trademark.

Problem: System did not "strip" out the non-valid trademark field when track was manually transmitted. CCB comments/history 10/28/96; UB00521 validated as open in 3.0.2.2 per M. Stillings. The current fix does not prevent a track that is received from an external source from being manually transmitted with an invalid trademark.

Action: Fixed in 3.0.2.5. Trademark input must follow the formats outlined in NWP10-1-12 (B) (SUPP 1). The following are the general formats allowed:
A###-##
AAA#####
(1-9ANBS)AAAAA##-##
(1-10ANBS)-(AA##(Aor#))AAAA##-##
(Note: The AA##(Aor#) sequence is optional)
(1-11ANBS)AAA##-##
AAAAA A###-##
AAAA A###-##
AA##(Aor#)
Notes:
1. A=alpha character; #=numeric character; ANBS=alpha, numeric, blanks and special characters.
2. In certain instances, specific words must be used with the specific format.

Agency #: DU00431

INRI #: 30200000489

D70168 TACREP MAROP set field 7 (location) was not output.

Problem: A TACREP MAROP set field 7 (location) value was input but not parsed to an OTG pos set field 3, 4. The history point output was a LOB taken from field 8 LOBL data. The primary locating data is found in field 7. If there is no data in field 7, then field 8 is used.

Action: Fixed in 3.0.2.5. Corrected two problems: (1) reports were being ignored if at 0.0 lat/lng, and (2) LOBs were being ignored due to incorrect processing of the bearing.

Agency #: DU00649

INRI #: 30200000390

D70169 Track Status window does not allow correct track total.

Problem: The Track Status window currently allows for 9999 tracks instead of 11300 tracks.

Action: Fixed in 3.0.2.5. Column added to Track Status, displaying maximum tracks allowed; track value increased by one digit, allowing display of full 11,300 tracks; and NRTI tracks merged with Link tracks because they are a Link track type.

Agency #: DU00651

INRI #: 30200000450

D70170 JMCIS drops track when FOTC edit history point occurs.

Problem: Send Platform track to FOTC (in Participant mode). FOTC sends the track back to us. FOTC edits the single history point (AOU, CSE, SPD) and sends a CTC, POS and DPOS for the track. JMCIS receives this update and then deletes the track. Similarly, if the track has more than one report. For example, if FOTC has two reports and edits one report (AOU, CSE, SPD). The Participating Unit, after receiving the CTC, POS, DPOS msg, will end up with one history point versus the two FOTC has.

Action: Fixed in 3.0.2.5. DPOS lines are sent first. If the FOTC Coordinator edits a history point, the broadcast will send the DPOS first followed by the CTC/POS pair. This way, PT will have same database as CT.

Agency #: DU00652

INRI #: 30200000453

D70172 Permit plotting of labels for tracks by IFF Mode 1, 2, and 3.

Problem: Currently the Symbol Labels window allows plotting of labels by IFF Mode 2. Increase the selection to include Mode 1 and Mode 3. If the mode is selected and there is a valid label for that mode, then plot by it. (Note: The GCCS team has created a temporary modification to plot by IFF Mode 3.)

Action: Fixed in 3.0.2.5. Added Mode 1 and Mode 2 IFF as symbol label plot options.

Agency #: DU00654

INRI #: 30200000603

D70173 TacPlot position inconsistency during DR mode.

Problem: When a track is in DR mode, inconsistent plotted position will be given with the TMGetTrackPlotPos() function call. The DR processing needs to be flushed through on all Tdbm events, not just the DR timer. A test program has been created to show and test problem. (See originator of STR for test program.)

Action: Fixed in 3.0.2.5. Corrected handling of internal data structure so DR position is always returned from TMGetTrackPlotPos when in DR mode.

Agency #: DU00655

INRI #: 30200000604

D70174 TRETABULAR uses hard coded encoder.

Problem: The TRETABULAR interface in UB posts TBMD reports directly to an MDX channel. "MdxSensorep" is the hard-coded encoder. The CSI segment needs to be able to select a different encoder. MdxSensorep should be the default. See originator for potential implementations. Make the changes in both the latest Op-Eval and the latest 3.X UB builds, if possible.

Action: Fixed in 3.0.2.5. Added option to retrieve TRETABULAR MDX encoder from \$DATAFILES/Messages/MdxTreEncoder data file.

Agency #: DU00656

INRI #: 30200000606

D70175 COP modifications needed for 3.0.2.5.

Problem: This is a place holder STR for any COP modifications needed for the upcoming OT. Specific requirements can be (1) added to this STR or (2) output into another STR and referenced in this STR.

Action: Fixed in 3.0.2.5. Added the capability to Tdbm to submit track data when the RR and LAST_UID fields are filled in, and have this information injected into Tdbm.

Agency #: DU00657
INRI #: 30200000607

D70178 Track accuracy precision for overlays and J-UNITs.

Problem: Presently, lat/long positions for tracks and overlays are stored with extended precision, but this precision is truncated when the units are displayed or transmitted. The USMC has requested that these units be transmitted and displayed in the following format: DDMSS.TH

Action: Fixed in 3.0.2.5. Added tenths and hundredths precision to latitude and longitude JUNIT encoding and decoding.

Agency #: DU00661
INRI #: 30200000634

D70179 This STR is intended to track the integration of the message acknowledgment capability into JMCIS 3.0.2.

Problem: The message acknowledgment (MSGACK) Comms enhancement provides host-to-host acknowledgment for the TCIM, Serial and GenDuplex interfaces. The edit window for each of these interfaces provides an AutoAck toggle, which if selected, indicates that all messages received on that channel will be acknowledged. (It does not indicate that messages being sent out on that channel will be acknowledged.) ACM is responsible for generating the MSGACK message. A new decoder is provided to process an incoming MSGACK message and update the OLOG entry for the message being acknowledged. The OLOG is annotated with ACK in the ACK column (ACK is not a default OLOG column).

Action: Fixed in 3.0.2.5. Added Message Acknowledgment capability to Comms. This allows the TCIM, Serial, and GenDuplex interfaces to send acknowledgment messages.

Agency #: DU00662
INRI #: 30200000635

D70180 An Acoustic track (Ambiguity) is generated every time a track ambiguity is generated.

Problem: An Acoustic track (Ambiguity) is generated every time a track ambiguity is generated.

Action: Fixed in 3.0.2.5. Phantom Acoustic tracks are no longer generated every time a track ambiguity is generated.

Agency #: DU00663

INRI #: 30200000638

D70181 An input TACREP TRK set was not processed.

Problem: NRaD STR DU00162 was investigated and determined to be invalid. During the investigation it was determined that there was a different problem with the TRK processing. This STR is a place holder for that STR. LOBL field bearings were not being read. Five character DTG not being read.

Action: Fixed in 3.0.2.5. Corrected parsing of five character DTGs.

Agency #: DU00665

INRI #: 30200000641

D70184 Year 2000 problem function ZxTimeMonYrToDtg dies after 1999.

Problem: Year 2000 problem function ZxTimeMonYrToDtg dies after 1999. Chart/src/Support/Zlib/Vids/lib/ZxTmToDtg.c

Action: Fixed in 3.0.2.5.

Agency #: DU00669

INRI #: 30200000620

D70189 Year 2000 problem, function ParseDTG.

Problem: Year 2000 problem, function ParseDTG.
Comms/src/Decoders/libs/DecTools/MeasUnitParse.c
Checks the year == 0 and determines incorrectly the year was not given !

Action: Fixed in 3.0.2.5.
Agency #: DU00673
INRI #: 30200000624

D70190 Year 2000 problem, function Julian().
Problem: Year 2000 problem, function Julian().
Comms/src/Interfaces/Ownship/sys/Cvns/Julian.c Problem:
tm_year is in total number of years since 1900.
Action: Fixed in 3.0.2.5.
Agency #: DU00676
INRI #: 30200000627

D70192 Year 2000 problem, function message_dtg().
Problem: Year 2000 problem, function message_dtg().
Tdbm/FotcSitrep/libs/All/message_dtg.c Problem :
sprintf(new_year,"%02d",(cmn<mn?yr-1:yr));
Action: Fixed in 3.0.2.5.
Agency #: DU00678
INRI #: 30200000629

D70206 Track Groups option not working.
Problem: The Track Group option is available (located under the
SUPPORT TDAs pull-down menu) but does not function. No
window is displayed when the option is selected. Performed a
search and could not find an executable for this option. Track
groups is not a Navy-specific option and is to be included in DII
UB core. Installed software: DII HP-UX 9.0.7, DII COE kernel
3.0.0.4, DII UB core 3.0.2.3, Lk-11 TADIL-A 2.2.0.0, DII
JMTK 1.0.0.7, DII C4I Acct Grps 1.0.0.1. CCB
comments/history LCCB 2/19/97: Accepted and awaiting build
plan assignment from CAG/PCRB. PCRB 2/25/97: On 3.0.2.5
build list
Action: Fixed in 3.0.2.5. Moved TrackGroup executable from JMCIS to

	UB. Track Group option now works.
Agency #:	DU00696
INRI #:	30200000767
D70212	UB RestartChart fails to function properly.
Problem:	Restart Chart option causes multiple Draw modules, etc. NOTE: When using Restart Chart, various executables fail to launch properly (e.g., Track Type Toggles in Plot Control). When run by hand, receive alert cannot find TacPlot. Problem is believed to be in the way the system uses COE start session and close session. In earlier versions, when the system used CDE Login, Restart Chart functioned properly. Since switching to XDM Login, it no longer works.
Action:	Fixed in 3.0.2.5. Removed menu item.
Agency #:	DU00650
INRI #:	30200000409
D70213	Tdbm fails to process Theater Ballistic Missile Defense data.
Problem:	Tdbm fails to process Theater Ballistic Missile Defense data.
Action:	Fixed in 3.0.2.5. TBMD prefixes were being incorrectly validated. Validation is now done correctly and TBMD is being processed.
Agency #:	DU00664
INRI #:	30200000639
D70214	Change ttyc00 through ttyc0f and ttyd00 through ttyd0f in UBInit to ttyC00 through ttyC0f and ttyD00 through ttyD0f.
Problem:	Change ttyc00 through ttyc0f and ttyd00 through ttyd0f in UBInit to ttyC00 through ttyC0f and ttyD00 through ttyD0f so comms interfaces will work correctly with new center-data MUX drives.
Action:	Fixed in 3.0.2.5. Added initialization logic to create proper device links.

Agency #: DU00666
INRI #: 30200000658

D70218 Passive Link-11 does not function in UB Core.
Problem: Edit DLRP executable was not included in the UB Core sent to DISA (from INRI). It was/is included in JMCIS Apps, but belongs in UB Core. It will be fixed in 3.0.2.4P1. Two-way Link (Apps and Admin) is not required for passive Link.
Action: Fixed in 3.0.2.5. Moved DLRP executable from JMCIS to UB.
Agency #: DU00702
INRI #: 30200000768

D70220 TRETABULAR format message parsing, TBMD contact reports.
Problem: Field 35 of the tabular format contains a series of free text fields used for Theater Ballistic Missile Defense (TBMD) contact reports. Depending on the reporting source, two separate data elements may be reported as a single large integer within field 35. The UB message parser is currently unable to decouple these two values. Require the UB TRETABULAR parser to recognize all possible variations of data in field 35 of the tabular format. Consult Steve Thode (NRaD) or Dennis Feller/Bob Nosco (OSO) for classified details. The classified working paper "Tabular Print Message Description" dated 29 March 1996 applies. Need for change: Problem discovered during TBMD 3.0.5 segment testing.
Action: Fixed in 3.0.2.5. Field 35 processing updated to handle both formats.
Agency #: DU00711
INRI #: 30200000776

D70223 Tracks transmitted with wrong force codes.

Problem: Tracks with threats of "PND" (pending) or "UNK" (evaluated unknown) are transmitted with the wrong force codes.
INPUT FC 00 (UNK/PND)/ OUTPUT FC 32 (UNK/UNK);
INPUT FC 02 (AIR/PND)/OUTPUT FC 28 (AIR/UNK);
INPUT FC 05 (SUB/PND)/ OUTPUT FC 29 (SUB/UNK);
INPUT FC 08 (SUR/PND)/OUTPUT FC 30 (SUR/UNK);
INPUT FC 26 (LND/PND)/OUTPUT FC 31;
INPUT FC 28 (AIR/UNK)/OUTPUT FC 02 (AIR/PND);
INPUT FC 29 (SUB/UNK)/OUTPUT FC 05 (SUB/PND);
INPUT FC 30 (SUR/UNK)/OUTPUT FC 08 (SUR/PND);
INPUT FC 31 (LND/UNK)/OUTPUT FC 26 (LND/PND);
INPUT FC 32 (UNK/UNK)/ OUTPUT FC 00 (UNK/PND).
This problem would fail both NCTSI and BGDBM certification. Installed S/W: HP-UX install/runtime 10.10; DII Kernel 3.0.0.5; HP-PA SUP 700 10.10; UB Core 3.0.2.4; JMTK 3.0.2.4. CCB comments/history LCCB 3/5/97: Accepted and awaiting build plan assignment by the CCB/CAG.

Action: Fixed in 3.0.2.5. Force Code processing updated to OTG Change 2 Rev B.

Agency #: DU00715

INRI #: 30200000805

D70224 Threat class of "UNK" (evaluated unknown) did not update pending threat.

Problem: According to BGDBM specification, a threat class of "UNK" (evaluated unknown) must update a threat class of "PND" (pending). This problem would fail both BGDBM and NCTSI certification. Installed S/W: HP-UX install/runtime 10.10; DII Kernel 3.0.0.5; HP-PA SUP 700 10.10; UB Core 3.0.2.4; JMTK 3.0.2.4. CCB comments/history LCCB 3/5/97: Accepted and awaiting build plan assignment by the CCB/CAG. PCR 3/11/97: Assigned to 3.0.2.5 build list.

Action: Fixed in 3.0.2.5. Force Code processing updated to OTG Change 2 Rev B.

Agency #: DU00716

INRI #: 30200000806

CG00335 Need to transmit message for C-tracks and message review.

Problem: Need to combine CUB NCRS CG00001 and CG00002. NCR should read: By keystroke initiation, tracks need to be automatically converted to a Platform track and auto-filled to OTH GOLD. Operator then needs to review OTH GOLD prior to transmission to the ESPRIT SANATIZER. Transmission to ESPRIT should be instantaneous. This entire process needs to be done in 1-3 keystrokes, 1-2 displays. (1) CG00001 references auto-transmitting C-tracks which have been created by SCI messages (KL's). (2) The suggestion for CG00001 recommends auto-filling a previously parsed COMINT track into a KL for transmission. This is written incorrectly. Transmission via this means would never be over TACINTEL. We do not re-report other agencies KL's. Intent of NCR was to GENSER LAN via ESPRIT. (3) CG00002 describes message review prior to transmission.

Action: Fixed in 3.0.2.5. Menu items need to be added via CUB segment to activate these functions.

INRI #: 30200000636

CG00393 Tdbm track update capability (from sensor systems).

Problem: The anticipated use of the KL writer and a sensor, such as COBLU, has the sensor under user control, causing a track update to be sent to Tdbm, then writing a KL. Experiments at SAIC suggest that once a position-time for a track reaches Tdbm, all subsequent reports for that track at that previously reported position and time will be ignored. Thus, the report generated by SIC for Tdbm from the KL will be discarded by Tdbm because of the update previously sent to Tdbm by the sensor software. This is bad because the KL will usually have significantly more information about the intercept than the sensor's initial Tdbm update. A solution would be to modify Tdbm to discard a report only if all the data elements in the SI report structure are the same as those of a previous report, not just position and time. This will allow information from the sensor users.

Action: Fixed in 3.0.2.5. Tdbm has been modified to update all attribute information on all SI tracks received.

INRI #: 30200000637

CG00474 Track update.

Problem: When an LOB-only sensor contact is transferred to Tdbm and it correlates to an existing track, the track symbol is moved to 300NM from owntrack on the bearing of the sensor contact LOB.

Action: Fixed in 3.0.2.5. Modified TacPlot to use MTST method to compute the most likely position an LOB-only sensor contact will have.

INRI #: 30200000642

CG00704 SI Tracks must have a PDDG to be updated.

Problem: For any attributes to be changed in an SI track it must have a PDDG entered. Since PDDGs are only associated with friendly entities, a new contact cannot be maintained as a NAV UAE.

Action: Fixed in 3.0.2.5. Changed the PDDG verification to accept an empty PDDG.

INRI #: 30200000643

CG00796 Expand PDDG table to include lat/lon's.

Problem: The current PDDG table within SIC needs to be expanded to include lat/lon's, down to the tenth of a minute. Justification: Combat DF and COBLU require the capability to add, edit, delete and modify HFDF shore site locations to include name, PDDG, and lat/lon to tenths of a minute. In addition, they require the software capability to look up shore site lat/lon's by PDDG. There currently exists similar capabilities within the UB core and SIC, but neither satisfy the requirement completely. Rather than add yet another HFDF lookup capability, a modification to SIC is required.

Action: Fixed in 3.0.2.5. The Sites and Sites Edit windows have been modified to include PDDG and lat/long to a tenth of a minute.

INRI #: 30200000780

DD00003	Archive/restore does not work when restoring to a device; thus receive a A missing GTAR program@ warning. (HP-UX 10.10 OS).
Problem:	Archive/restore does not work when restoring to a device; thus receive a A missing GTAR program@warning.
Action:	Fixed in 3.0.2.5. Installed GTAR onto the HP-UX platform.
INRI #:	30200000611
DJ00055	Unable to Archive/Restore database at SysAdm level.
Problem:	The Archive/Restore database option in SysAdmin does not work.
Action:	Fixed in 3.0.2.5. Data paths and permissions were corrected to allow archiving and restoring.
INRI #:	30200000591
DJ00084	ATO will only be received on the master machine's comms channels, not a client's (HP-UX 10.10 OS).
Problem:	ATO will only be received on the master machine's comms channels, not a client's (HP-UX 10.10 OS).
Action:	Verified in 3.0.2.5 for HP-UX 10.20.
INRI #:	30200000615
DU00081	UB displays incorrect symbol for Force Code 21.
Problem:	SSA v/v/tl3536 /23 per OS-OTG spec, the symbol for Force Code 21 (unknown/neutral) is supposed to be a green unknown symbol. UB uses a green neutral symbol with a broken-line for the bottom half of the symbol. OS-OTG spec violation and potential NCTSI certification issue. Related to UB08870. CCB comments/history LCCB 10/2/96: Accepted and awaiting build plan assignment from the CCB.
Action:	Fixed in 3.0.2.5. Updated Force Code processing to OTG Change 2 Rev B.
INRI #:	30200000339

DU00085 Threat class of 'PENDING' displays 'UNKNOWN' on Trk edit page.

Problem: OS-OTG Rev B spec changes of Force Codes for threat classes of PENDING are not decoded properly by UB. The following threat codes of pending display 'UNK' as the threat code on the track edit page: 00-UNK/PND; 02-AIR/PND; 05-SUB/PND; 08-SUR/PND; and 26-LND/PND. Related to UB07346. (UB07346 PRI was changed by LCCB on 4/6/95 from 3 to 2 and PD70 PRI from X to A). CCB comments/history 9/12/96: Moved from DJ00032 per M Stillings. LCCB 10/2/96: Accepted and awaiting build plan assignment from the CCB.

Action: Fixed in 3.0.2.5. Updated Force Code processing to OTG Change 2 Rev B.

INRI #: 30200000340

DU00370 Some symbol descriptions missing.

Problem: NCTSI test set 07A. Some symbol descriptions are missing. Symbol descriptions are to be IAW OS-OTG Spec Rev B, Table 5-8.

Action: Fixed in 3.0.2.5. Updated Force Code processing to OTG Change 2 Rev B.

INRI #: 30200000349

DU00435 Update force code processing to be IAW OS-OTG Rev B, Chg 2.

Problem: Update the force code processing to be in accordance with the OS-OTG Specification (Rev. B, Chg. 2). These changes, which went into effect on 01-Oct-96, included a copy of Table 5-1 from the OS-OTG spec with the required changes outlined. **Recommend that these changes be included in release 3.0.2.3 (expected delivery Dec 96) to allow sufficient test time prior to certification.** This will be a NCTSI certification issue. CCB comments/history LCCB 11/13/96: Accepted and awaiting build plan assignment from the CCB. This NCR must be fixed prior to NCTSI certification of next release.

Action: Fixed in 3.0.2.5. Updated Force Code processing to OTG Change 2 Rev B.

INRI #: 30200000492

DU00464 Force codes for THRT classes of PENDING are decoded incorrectly.

Problem: OTH-T Rev B Spec changes of force codes for threat classes of PENDING are not incorporated in UB force code processing. The following force codes are decoded incorrectly: Spec JMCIS FC/POS/THRT, FC/POS/THRT, 00/UNK/PND, 00/UNK/UNK, 02/AIR/PND, 02/AIR/UNK, 05/SUB/PND, 05/SUB/UNK, 08/SUR/PND, 08/SUR/UNK 26/LND/PND, 26/LND/UNK. This STR is related to NCTSI TR00327, UB07010 (same, but more detailed description of problem) and UB07347 (related encoding problem). Also related to UB07097 and UB07100. CCB comments/history 10/5/96; UB07346 validated as open in 3.0.2.2 per R Stone.

Action: Fixed in 3.0.2.5. Updated to OTG Change 2 Rev B.

INRI #: 30200000500

DU00468 USMTF PUB 6-04 baseline 97 versus baseline 95.

Problem: The following changes will become effective 01 Jan 97 for all systems that encode/decode USMTF message sets. All versions of JMCIS software are impacted. Message - TACELINT set - sol field -11 new field - alphamonthyear (ffir/fudn 176/1) 5an, example "jan97". Optional new set - forcode, field 1 2n force code as defined in GOLD OS. (Mandatory) message - locator - new set forcode as defined above. Mandatory following: sub, naval, merch, fishctc, pcraft, unk when not stacked. Set - signa, fields 2 and 3 (max/min fund freqs) replaced by new fields (max/min acoustic freq - nearest one thousandth hertz, 7 to 10 ans. Other minor changes submitted separately. Need for change: Maintain up-to-date decode capability. CCB comments/history 10/5/96; UB08777 validated as open in 3.0.2.2 per P. Seek.

Action: Fixed in 3.0.2.5. Updated decoders to handle new specification.

INRI # : 30200000508

DU00627 Manual entry of Emitter tracks should override geo filters.

Problem: The new Emitter track option does not allow the user to manually enter an emitter track if said track conflicts with currently active ELINT geo filters. This behavior is counter to the existing logic for Platform tracks, which can be manually entered using the new track option regardless of the status of attribute geo filters. Recommend changing the new Emitter track logic. Manual entry of any track should override any currently active input filters. CCB comments/history 1/15/97; UB06928 validated as open in 3.0.2.3 per S. Thode.

Action: Fixed in 3.0.2.5. Modified logic to allow manual entry of tracks to override geo filters.

INRI #: 30200000650

DU00641 Incorrect warning generated for deactivating input message filters.

Problem: /TL3664/ When the operator attempts to deactivate an input message filter without an item selected, the warning generated asks the operator to select an item to activate instead of deactivate. Can be confusing to fleet operators.

Action: Fixed in 3.0.2.5. Modified verbiage to say **A**Activate/Deactivate@ vice **A**Activate.@

INRI #: 30200000657

DU00668 Year 2000 problem with rpt_dtg, Support/Vids/libs/rpt_dtg.c

Problem: Year 2000 problem with rpt_dtg, Support/Vids/libs/rpt_dtg.c

Action: Fixed in 3.0.2.5.

INRI #: 30200000619

DU00670 Year 2000 problem, function DayAdjTest.

Problem: Year 2000 problem, function DayAdjTest.
Comms/src/Interfaces/Ownship/libs/TimeAdjTest.c

Action: Fixed in 3.0.2.5.

INRI #: 30200000621

DU00677 Year 2000 problem, function Julian().

Problem: Year 2000 problem, function Julian().
Comms/src/Interfaces/Ownship/sys/Wrn6/Julian.c Problem :
tm_year = # of years since 1900.

Action: Fixed in 3.0.2.5.

INRI #: 30200000628

DU00679 Year 2000 problem, function NmeaDtg() NmeaUtc().

Problem: Year 2000 problem, function NmeaDtg() NmeaUtc().
Comms/src/Interfaces/Ownship/libs/TimeAdjTest.c Problem:
DayAdjTest(&tm.tm_year, &tm.tm_mon, &tm.tm_yday,
&tm.tm_mday, &tm.tm_hour, &tm.tm_min, &tm.tm_sec);

Action: Fixed in 3.0.2.5.

INRI #: 30200000630

NR00004 "Edit Network" communications edit window.

Problem: "Edit Network" communications edit window select list for
"machine" leaves remnant data. For example, changing jots16 to
jots1 leaves the 6 displayed and appears to still be jots16. This
also occurs in other communications edit windows.

Action: Fixed in 3.0.2.5.

INRI #: 30200000579

NR00011 Integrate NRTI server software into JMCIS.

Problem: Integrate NRTI server software into JMCIS. Ref C6F 181551Z
Dec 96, para 6a.

Action: Verified in 3.0.2.5.

INRI #: 30200000586

TRN0004 Trademark value input with hyphen, but not output to OTG with hyphen.

Problem: A TACREP OPSUP set field 1 trademark input value "case P001-97" was incorrectly output as "case P001 97". OS-OTG Rev B Chg 2, para 2.3 permits retention of the hyphen in this field.

Action: Fixed in 3.0.2.5. Removed logic that stripped hyphen character on output.

INRI #: 30200000811

30200000293 Move the following programs from JMCIS to UB.

Problem: Move the following programs from JMCIS to UB: TrackDBConfig, Oto, Amp, and AmpConfig.

Action: Fixed in 3.0.2.5.

30200000407 ATOX Plus not displaying all mission data in ATOMSG.

Problem: ATOX Plus not displaying all mission data in ATOMSG. Using NCTSI ATO data, it was found that ATOX Plus capabilities in 3.0.2.2 were not displaying/plotting all mission data.

Action: Fixed in 3.0.2.5.

30200000425 Test COE core components separately (UCP, TMS, JMTK).

Problem: Test COE Core Components separately.
1) Run current level one and level two API tests (see STRs 302_420 and 302_421).
2) Create separate account groups for each component.
3) Coordinate procedural updates in current Test Procedures and the in-progress Test Plan.

Action: Fixed in 3.0.2.5.

30200000430	Remove external track from Track DB Config window.
Problem:	Remove the External Track item from the Track DB Config window. The NRTI track enhancement removes the external track from the Track Totals window. The External track becomes OBE.
Action:	Fixed in 3.0.2.5.
30200000558	Change track threat UAE to SUSPECT.
Problem:	Change track threat UAE to SUSPECT. Unknown assumed enemy (UAE) is no longer used in the reference docs (OS-OTG & Link-11) to refer to tracks of unknown threat but believed to be hostile. They have been replaced with SUSPECT. Track symbol stays as it is. Replace threat option of UAE with SUS (or some other suitable abbreviation; although possible conflict with alert field option of SUS (suspect)).
Action:	Fixed in 3.0.2.5. Updated to OTG Change 2 Rev B.
30200000572	Orestes Interface failed to insert the proper shift key.
Problem:	Appending a down shift key to the Orestes message prefix confused the Orestes device in translating figures to letters and letters to figures. Hence, the receiving message was interleaved with meaningless information.
Action:	Fixed in 3.0.2.5.
30200000660	Change ttyC00 through ttyC0f and ttyD00 through ttyD0f in printer software to ttyC00 through ttyC0f and ttyD00 through ttyD0f.
Problem:	Change ttyC00 through ttyC0f and ttyD00 through ttyD0f in UBInit to ttyC00 through ttyC0f and ttyD00 through ttyD0f so printer interfaces will work correctly with new center-data MUX drives.
Action:	Fixed in 3.0.2.5. Modified initialization to create proper device links.

30200000663

UNIX-group-based security.

Problem:

The requirement is to secure UB (DII COE) with respect to UNIX groups. All users will have their umask set to at least **A2@** in GCCS 3.0 (though the long-term goal is **A027@**), and DII COE must function with at least this constraint. In GCCS 2.2, much care was taken to ensure that files shared among account groups with different UNIX groups had appropriately open permissions; also, much use was made of the set gid capability to ensure future files written would be of the correct group. This was not a comprehensive solution to the problem, but rather the simplest legitimate method to avoid rejection by DISA security. For recommendations on a comprehensive solution, see Mary Fenno's document of our Lessons Learned from this project.

Responses: Leigh Becker: Currently, users= **Acshrc@** files have a umask value set to 2. SysAdmin and SecMan functions that apply to datafiles used by the system are wrapped by shell scripts that reset umask to 0. All normal system users are in group **ACOE,@** but this restriction is not enforced by the account/profile manager. (The shell script concept of setting umask to 0 is not a comprehensive solution and might fail DISA security; also, the group COE restriction on all users (if valid) will need to be enforced by SOP and documentation, if nothing else.)

Action:

Fixed in 3.0.2.5. Modularized all file I/O to a small group of functions that ensure files are created with proper permission, independent of the umask setting.

30200000667

PostInstall pitfalls.

Problem:

We have experienced tricky problems with PostInstalls not taking into account the loading of segments on other disks (e.g., doing a **Achmod -R@** on **/h/<segmentname>**), not knowing that **Ac p -p@** does not retain owner/group on Solaris, and not knowing that mountd and/or nfsd might not be running, if nothing is being mounted. This is just a heads-up, and is likely known already.

Action:

Corrected by transition to DII COE.

30200000682	Alert Log core dump problem.
Problem:	We have recently discovered that on HP, the AlertLog executable core dumps at initial launch if the AlertQueue file has reached its 600000 byte limit and has begun to cycle. This situation should be tested in DII COE.
Action:	Fixed in 3.0.2.5. Fixed memory leaks and eliminated core dumps.
30200000683	Scripts use of keyword AHOST@
Problem:	In 2.2, an increasing number of reports are currently arriving stating that the use of the environment variable AHOST@ in segment PostInstalls or SysAdm scripts is failing, and that changing this to ALCL_HOST@ resolves the problem. The problem exists in 2.2 with the GenBcst ON/OFF scripts for certain, and may affect Clean Datafiles (others?) as well. To be safe, this variable should be changed in all such cases.
Action:	Fixed in 3.0.2.5. Changed all scripts to use LCL_HOST vice HOST.
30200000685	Multiple Tdbm servers per LAN.
Problem:	This is a spoken DISA requirement, which is very difficult to accomplish in GCCS 2.2 (one /h/data/global on the EMserver, many /h/data/global/UB=s required). It happened to work in 2.1 because /h/data/global/UB was a link to /h/Nauticus/data/mnt, and the Nauticus mount point could be controlled separately to give each Tdbm master its own global data. The global data is the key issue. If everyone on the LAN shares one global data directory, how can multiple Tdbms have their own area? One possible solution (not implemented), is to have SYSCON modify UB=s global data environment variable to point to /h/data/global/UB/<tdb domain>, so all machines would get data from the subdirectory assigned to their domain. But how many places in the system are hard coded to Ah/data/global/UB@ ?
Action:	Fixed in 3.0.2.5. Added UB group logic that allows multiple servers on LAN. Special note for GCCS users: If NIS+ is used, set /etc/Services to be local vice NIS+ master.

30200000686	Archive/restore failing due to COE problems
Problem:	Archive/restore from the Misc menu was not functioning due to 1) \$MACHINE name variable conflict between "SOL" and "SOLARIS" creating wrong /tmp/vids/tmp device files, and 2) the gtar utility missing from the kernel. Agtar@ is distributable, and is required by archrest, at least in GCCS 2.2. Hopefully, the \$machine and Agtar@ issues have been cleared up in DII COE. Responses:
Action:	Fixed in 3.0.2.5 by STR 30200000611
30200000690	Track status MAX value display.
Problem:	This project enables a user to see the MAX values configured for the Track Database, using the standard Track Status window. It was requested by the field, in view of the newly-added SysAdmin ability to modify track category maximum counts. The project has just been integrated and has been provided.
Action:	Fixed in 3.0.2.5. Added column to track MAX values.
30200000691	Tdbm divide-by-zero fixes.
Problem:	Several examples of divide-by-zero were encountered inside Tdbm, which had gone undetected in 2.2.0.5 due to HP's ability to recover. Solaris is not so forgiving. These changes were provided to INRI-SD and have likely been integrated into DII COE. Just a check.
Action:	Verified in 3.0.2.5.
30200000692	ELINT Candidates window fix.
Problem:	Corrected ELINT Candidates window failure to open. If SECRET data was loaded, ELINT Candidates was causing tracks to terminate abnormally. Problem was due to an uninitialized PDDG table. Received a one-line fix project from RRH (INRI OG), indicating the fix has probably been ported into DII COE.
Action:	Verified in 3.0.2.5.

30200000693 Tdbm table socket problem.

Problem: Corrected an insidious socket-linger-related problem that occasionally caused Track Tables not to successfully update Tdbm (if on the master), or to corrupt the file and core dump master Tdbm (if on a client). Made the clients= socket connections to Tdbm synchronous.

Action: Fixed in 3.0.2.5. Corrected problem where Tdbm clients didn't sync, leading to data corruption.

30200000700 Message Log search fix.

Problem: The SEARCH pop-up option in any of the message logs in UB did not work on Solaris, due to lack of portability of "grep" commands between platforms.

Action: Corrected by transition to DII COE.

30200000701 ATOX+ capability and fixes.

Problem: The ATOX+ functionality in GCCS 2.2 project has been kept current with Dave Custodio's work in San Diego. Dave has done the ports of ATOX+ and all subsequent fixes to our baseline (very similar to DII COE in this area), so there should be no difference in functionality between ATOX+ in GCCS 2.2 and DII COE (except perhaps in DII's favor). It's probably worth retesting to make sure the NIPS Query pop-up menu item doesn't cause a core dump (that was the ATO_NIPS_FIX project, pre-Dave-Custodio).

Action: Fixed in 3.0.2.5. Incorporated GCCS fixes. Corrected core dump of NIPS Query pop-up menu.

30200000703 AutoForward core dump.

Problem: The AutoForward table was core dumping when the user-selected ALL Comms Channels, the ALL criteria button, and clicked OK. The problem was two-fold. Part of it was the bad index, the other part was that Solaris is unforgiving when it comes to sprintf's of NULL's. We removed the logic for copying from a list, and added it to the case statement.

Action: Fixed in 3.0.2.5. Corrected AutoForward core dumping on a Solaris, which occurred when the user selected All Comms Changes and the ALL criteria button and then clicked OK.

30200000709	TacPlot API dual definition fix.
Problem:	Various APIs were causing TacPlot to core dump. The problem was the result of dually-defined UNIX regular expression parsing system libraries. Removed libForm from Link library list.
Action:	Corrected by transition to DII COE.
30200000711	On/Off/Dots fix.
Problem:	In GCCS 2.2, tracks changed to DOTS via Symbols On/Off/Dots or Track Controls will never move on the chart, even if their position is updated (via Comms interface or Quick Update).
Action:	Fixed in 3.0.2.5. Corrected problem of tracks not moving if Dots is selected.
30200000714	Query server instability fix.
Problem:	A bug in the new ATOX+ code was responsible for sending bad pathname information to the QueryServer, when NIPS lookups requested an ATO import. The ATOX+ bug (in CommsDec) was fixed by Dave Custodio, but we corrected the QueryServer functionality so that it would not lock up as a result of the bad data. Relatively minor fix, but good for server stability.
Action:	Fixed in 3.0.2.5. Fixed NIPS Query to behave properly when file is missing.
30200000725	Message filters on clients fix.
Problem:	Message filters on clients fix. Leigh Becker: Fixed on DII COE.
Action:	Verified in 3.0.2.5.

30200000736	Some JMCIS Account Group functionality required in UB.
Problem:	Certain functions, which exist only in the JMCIS account group, are required in UB core and should become part of UB segment. TRETABULAR is one example.
Action:	Fixed in 3.0.2.5. TRETABULAR and Link Status moved from JMCIS to UB.
30200000744	Expanded Link track structure - TADIL J.
Problem:	The raw data section of the Link track structure needs to be expanded to accommodate the requirements of TADIL J.
Action:	Fixed in 3.0.2.5. Raw data size was increased and TADIL J Link types defined.
30200000747	Remove references to JMCIS in online Users Guide.
Problem:	Remove references to JMCIS in online Users Guide. Note: At the current time, references to JMCIS Printer and JMCIS Printer Chooser will remain until the window is changed in the UB software.
Action:	Fixed in 3.0.2.5. Removed references.
30200000751	Incorporation of MDX stabilization fixes.
Problem:	This project will incorporate MDX stabilization fixes.
Action:	Fixed in 3.0.2.5. Stabilization fixes were added to ensure MDX knows when a write fails, and to ensure it does not connect to the same client multiple times.

30200000753	Re-engineer mount/unmount code of all PostInstall/DEINSTALLS to support GCCS multi-/h/data/global mount points.
Problem:	Re-engineer mount/unmount code of all PostInstall/DEINSTALLS (i.e., UB/Link11/JMTK/JMCIS) to support GCCS multi-/h/data/global mount points. Current mount/unmount code only supports one /h/data/global mount and would cause all segments to fail to install on GCCS systems. Note: New mount /remount logic not present in the PostInstall for Link11 or Link11 Adm.
Action:	Fixed in 3.0.2.5. Corrected problem with mount/unmount in all PostInstalls/DEINSTALLS for UB, Link11, JMTK, JMCIS, Printers, and Link11 Adm.
30200000754	Re-engineer UB_Remount.csh (ex-JSA-Remount.csh) to support GCCS multi-/h/data/global mount points.
Problem:	Re-engineer UB_Remount.csh (ex-JSA-Remount.csh) to support GCCS multi-/h/data/global mount points. Current UB_Remount.csh (ex-JSA-Remount.csh) code only supports one /h/data/global mount and would cause UB_Remount.csh (ex-JSA-Remount.csh) to fail on GCCS systems.
Action:	Fixed in 3.0.2.5. Corrected logic that handled multi-/h/data/global mounts.
30200000755	Move the various UB specific options from JSA to UB to support GCCS and other none JMCIS account groups.
Problem:	Move the following UB specific options from JSA to UB to support GCCS and other none JMCIS account groups: remount global data files, set WAN UID, set WAN DDN time out, config DDN Host Table, config STUIII, set NIPS Tdbm Host, and all options under the database pull-down (i.e., CleanData Files, archive/restore. These changes will require updates to the postinstall, seginfo, names of programs (i.e., mv JSA_xxx to UB_xxx). For both UB and JSA.
Action:	Fixed in 3.0.2.5. Options moved from JSA to UB.

30200000756	The following progs from JMCIS to UB: MdxCecProcess, MdxSenProcess, CecProcess, and TrackGroups (required for GCCS).
Problem:	The following progs from JMCIS to UB: MdxCecProcess, MdxSenProcess, CecProcess, and TrackGroups.
Action:	Fixed in 3.0.2.5. Options moved from JMCIS to UB.
30200000778	Add a CSI type as a Link track type.
Problem:	Add the proper hooks into track management to allow for a CSI Link-type track.
Action:	Fixed in 3.0.2.5. CSI Link track type definition added.
30200000784	Foundation functions needed for secure_open and fopen to support umask 027 (ref 302_663).
Problem:	Foundation functions are needed to centralize all uses of the open and fopen functions. This ensures that whatever steps are required for UNIX-groups-based security can be applied to all DII COE core code simultaneously and reliably.
Action:	Fixed in 3.0.2.5. Centralized all file I/O through one group of routines.
30200000795	Correct decoder memory bugs and RAW/RAD line DTG precision issues.
Problem:	This fix is currently being worked and will be made available to the DII COE team. The bug causes master Tdbm (on Solaris) to core dump when it receives a GenBcst of tracks, where the position report DTG (imbedded in the raw line) does not match the RAD report DTG. Since RAD DTG-s are rounded to the minute, this should happen 59 of 60 times with TRE 10.0 or TIBS tracks (that are reported and stored with precision of seconds).
Action:	Verified in 3.0.2.5.

30200000796	Tdbm core dumps under certain circumstances.
Problem:	This fix is currently being worked and will be made available to the DII COE team. The bug causes master Tdbm (on Solaris) to core dump when it receives a GenBcst of tracks where the position report DTG (imbedded in the raw line) does not match the RAD report DTG. Since RAD DTG-s are rounded to the minute, this should happen 59 of 60 times with TRE 10.0 or TIBS tracks (that are reported and stored with precision of seconds).
Action:	Fixed in 3.0.2.5. Fixed logic that accessed null pointer when nrads is 0.
30200000808	Increase available Link track types to support the 3.0.2.5 delivery.
Problem:	The Link track type in UB is used to support many additional track types. There are currently 16 Link track types available and 17 types needed. This change will make room for the 17th type. (CSI)
Action:	Fixed in 3.0.2.5. Increased the source mask by one, giving 16 more Link track types.
30200000809	Editing a PLRS track brings up standard Link edit window instead of a PLRS edit window.
Problem:	The PLRS edit window no longer appears. Used to work in 3.0.2.0.
Action:	Fixed in 3.0.2.5. Added case to support PLRS type.
30200000810	Potential to hang Icm client.
Problem:	The potential to hang an Icm client currently exists in the code. The fix to allow message filters on the slave Icm machines was done incorrectly. This correction properly passes the message filter command to the master for processing. The test for this correction is to ensure that message filters can be brought up on both master and slave Icm machines.
Action:	Fixed in 3.0.2.5. Passed message filters to master as they should have been.

30200000813	Support of HP-UX.B.10.20.
Problem:	Changes needed to support the HP-UX.B.10.20 operating system. These changes include changed directory paths (i.e., support of X11R6 over X11R5), and two incorrect prototypes in two include files.
Action:	Fixed in 3.0.2.5. Various compile and build environment files modified.
30200000815	Duplex channel does not process last message.
Problem:	The Duplex channel does not process the last message queued. New messages will push the queued message through, but will leave its last message.
Action:	Fixed in 3.0.2.5. Check number of bytes read to handle single-message and last-message cases.
30200000816	Mpr memory fix.
Problem:	Mpr is not allocating enough memory on its "freads". It is also not freeing up its memory. Major potential problems, especially on the Solaris platform.
Action:	Fixed in 3.0.2.5. Corrected problem.
30200000817	Set NIPS Tdbm host core dump.
Problem:	The "Set NIPS Tdbm Host" command core dumps on the Solaris platform.
Action:	Verified in 3.0.2.5.
30200000818	Ocm client process hang.
Problem:	An Ocm client process will hang on its "getservcmnd()" if an unrecognized type is sent. Ocm needs to always do a "setservcmnd()", even if it receives an unrecognized type.
Action:	Fixed in 3.0.2.5. Corrected problem.

30200000819	TacPlot core dumps due to memory problem.
Problem:	TacPlot will core dump due to memory allocation problem.
Action:	Fixed in 3.0.2.5. Access of null pointer fixed.
30200000820	Data loss on OTH track merge.
Problem:	When two OTH tracks are merged, the data in the "spare" field is not merged into the resultant track.
Action:	Fixed in 3.0.2.5. Spare field now transferred in merge. Needed in support of COP.
30200000821	Add a CSEL Link track type.
Problem:	Add a CSEL Link-track type to the track management system.
Action:	Fixed in 3.0.2.5. CSEL track-type definition added.
30200000826	Remove scripts fail under umask 027 (need to rewrite all RM Scripts).
Problem:	Tests using higher than 000 umask setting have shown a problem with the various remove scripts to clean data. These scripts need to run at a higher permission level to complete their tasks. Note: Need to rewrite all RM scripts to sh or ksh vice csh. 03/26/97
Action:	Fixed in 3.0.2.5.
30200000828	Logic in UB PostInstall for "exports" file in /etc will fail in DII COE 3.0.0.7 and system will fail to work correctly.
Problem:	Logic in UB PostInstall for "exports" file in /etc will fail in DII COE 3.0.0.7 and system will fail to work correctly. This is fallout from Reston STR RTO00001328: "No exports file in /etc directory". The 3.0.0.7 Kernel adds a 0 length file for exports. Change logic to add required entries so UB will work correctly.
Action:	Fixed in 3.0.2.5. PostInstall corrected.

30200000830 RM.alerts fails to function correctly (i.e., it fails to remove AlertLogs).

Problem: RM.alerts fails to function correctly (i.e., it fails to remove AlertLogs).

Action: Fixed in 3.0.2.5. Converted to ksh.

30200000845 Move libM to libMlib to create unique name for INRI-supplied math library.

Problem: It was discovered that on HP 10.10 the OS has its own libM.a. It is necessary to change the INRI version of libM to a unique name (libMlib.a) to ensure that the INRI library is the one used for math functions.

Action: Fixed in 3.0.2.5.

30200000846 Add Arequires@information to UB, JMTK, C4I segments.

Problem: Add Arequires@information to UB, JMTK, C4I segments.

Action: Fixed in 3.0.2.5.

30200000848 Add mode 1,2,3 IFF columns to track summary.

Problem: It is desired to be able to display a track's MODE 1, MODE 2, and/or MODE 3 IFF in the track summary window.

Action: Fixed in 3.0.2.5.

30200000850 Convert CONFIG_PRINTCAP to ksh.

Problem: Convert CONFIG_PRINTCAP to ksh.

Action: Fixed in 3.0.2.5.

The following STRs were a partial pass.

D70171 Unable to send or receive OTO messages on Solaris.

Problem: Unable to send or receive OTO messages on Solaris. Message is never received at the destination. Error listing received saying: "config error: mail loops back to myself" and "unrecognizable error" and "local configuration error." D Fragazi tried HP system with success between HP systems only. Sending to Solaris from HP was unsuccessful. When send mail is attempted on Solaris (running by hand), receive error that the system is unable to contact destination.

Action: Fixed in 3.0.2.5 for Solaris only. Fails on HP due to upgrade from 10.10 to 10.20 OS.

Agency #: DU00653

INRI #: 30200000457

30200000737 Format for speed in flexible track tag truncates value in display.

Problem: TacPlot (FlxTrkTags.c). The format used for the speed in the flexible track tag is fixed at %6.1f (length is 6, with 1 decimal place 0 XXXX.X). So, if the speed is 15, the format will be 0015.0. Normally, the VTS operators want two digits shown in the flexible track tag for speed. If the length of the display for speed is 2, then the displayed speed is 00 (the first 2 digits of 0015.0). To fix this, one approach is to use the length of the display to dynamically determine the format of the speed. For example: `sprintf(format, "%s0%d.0f", percent, FlexTrack[n].tag_len[i])`. See comments.

Action: Fixed in 3.0.2.5 on HP only. Length of display used to determine the format of the speed.

The following STRs were unable to system test.

DJ00085 Im library does not have capability to support plotter's validation function.

Problem: The USMC plotter support program needs to get a handle on a text widget for validation call back function, but the current Im library does not have the capability to do so.

Action: Fixed in 3.0.2.5. New widget added to Im library.

INRI #: 30200000633

30200000403 Destination and remarks data from a VTS Link track need to be dynamically displayed as track tags on the chart.

Problem: VTS Link tracks need to display the destination field and the first line of remarks data as part of a flexible track tag. These fields currently display/update on the chart as a track tag item only after two track updates have been requested. The track tag display must change with each update of the data value in Tdbm.

Action: Fixed in 3.0.2.5. Flushed all flexible track tag updates.

30200000694 JWID >95 Tdbm enhancements.

Problem: The JWID team requested a few core Tdbm mods to the GCCS 2.2 build in support of JWID >95. These mods were implemented in 3.0.1.3G and 4G. They included a fix to a Tdbm lookup problem, inclusion of UID in Tdbm spare field, and a minor change in support of GSI interface requirements. The fixes should be ported to DII COE.

Action: Fixed in 3.0.2.5. Included UID into Tdbm spare field. Needed in support of COP.

30200000697 JTAV modifications to tracks.

Problem: The JTAV segment, like EPLRS, comes with its own track editor. It uses the JUNIT structure for its basic object (to leverage the JUNIT's transportability), but loads the Remarks and other fields with important JTAV-specific data that is displayed correctly only through the JTAV MMI. We are making modifications similar to those made for EPLRS, so that the Tracks program will launch the editor and handle the NEXT/PREVIOUS functions. Unfortunately, the change is in AibTrkTools.a@

Action: Fixed in 3.0.2.5. JTAV View window now accessible through tracks.

30200000727

Remove Low Max files limitation.

Problem:

Remove Low Max files limitation. Status: Will exist in 2.2, must-have for 3.0.

Projects: NONE (yet).

Discussion: GCCS has just uncovered a severe limitation in the number of open files per process. Both the Solaris and HP kernel in GCCS 2.2 set the number to around 60. Since master Pcm, Icm, and Ocm (at a minimum) require two open sockets per slave machine, this severely limits the number of slaves on a LAN. We are attempting to override this limit and set it to 1024. The minimum is at least 500.

Action:

Fixed in 3.0.2.5. Increased soft limit of FDs for servers. Corrected Pcm close on exec problems.

30200000728

VIDS library bug.

Problem:

VIDS Library Bug Status: Will be corrected in 2.2, required for JTAV port to 3.0, very desirable in 3.0.

Projects: VIDS_EXEC_BUG (not started).

Discussion: The GCCS team has just uncovered a low-level (though easy-fix) VIDS library bug. The "VExecuteProgPath" uses the "return" function instead of "exit" when its "exec" fails due to missing program, etc.

Action:

Fixed in 3.0.2.5. Exit rather than return on failed execs.

The following STRs were determined to be invalid.

DK00095

PEX extension and perspective on the 10.10 OS.

Problem:

Investigate PEX extension and perspective on the 10.10 OS.

Action:

INRI #:

30200000640

DU00432 Operator is not warned when the lead unit of a group is deleted.

Problem: The operator is not warned when the lead unit of a track group is deleted. FDD issue. CCB comments/history 10/28/96; UB00013 validated as open in 3.0.2.2 per H. Burdett.

Action:

INRI #: 30200000490

DU00559 Network config file problems when not using lan0.

Problem: There are two problems that arise when setting up a JMCIS workstation without a lan0 connected. This came up on a recent install on the Coronado. All of the JMCIS workstations were set up with Seahawk FDDI cards and the lan0 (ethernet interfaces) were turned off. The two problems encountered were: (1) Automount@ will not start. This is because the file that starts automount (/etc/netnfsrc2) only looks for lan0 to be up before starting. If lan0 is not configured, automount will not start. The way to fix this is to modify the /etc/netnfsrc2 file to look at any possible network interface that could be used (lan1, seah0, etc). The netman segment (version 2.0 and higher) modifies the /etc/netnfsrc2 to look at multiple network interface types, but this should be handled by the OS. (2) The second problem encountered is that non-lan0 network interfaces cannot be set up with a name that matches the hostname of the workstation without manually modifying the /etc/netlinkrc file. This is because lan0 is hard coded to match the hostname of the workstation in the /etc/netlinkrc file. This is how the HP OS is set up by default, but if we are going to use non-lan0 network interfaces exclusively, then we need a way to configure those non-lan0 interfaces to match the hostname. This capability has been added to NETMAN version 2.2.2, but in doing this, it was necessary to disable SysAdmin's "change machine id". SysAdmin's "change machine id" just changes the hostname of the workstation and the lan0 is configured with the IP address associated with this hostname. The above also applies to the DII COE 3.0.0.2. CCB comments/history 12/4/96; LCCB action, UB09089 determined as appl to DII JMCIS as DU00559.

Action:

INRI #: 30200000592

DU00574 Geo filter fails to filter out contacts under Add Attributes.

Problem: JMCIS /TL3646 /23 Contacts are not filtered out when a geo filter (using Add Attributes) is set. This function worked correctly in the previous releases. Loss of capability. BGDBM cert issue. CCB comments/history LCCB 12/18/96: Accepted and awaiting build plan assignment from CAG/CCB.

Action:

INRI #: 30200000598

DU00582 Acoustic tracks not being created based on valid trademark.

Problem: JMCIS /TL3627 /43 when a GOLD message comes in containing a valid trademark in the ctc/ line, an Acoustic track is no longer created. This worked correctly in 3.0.2.0. Note: valid trademarks are defined in OS-OTG Spec, NWP 10-1-12(b) (SUPP.- 1). Related to INRI STR 3020000296. CCB comments/history 12/16/96 LCCB action, transferred from DJ00052.

Action:

INRI #: 30200000602

DU00583 Acoustic tracks not being created based on valid Signa data.

Problem: JMCIS /TL3628 /43 When a GOLD message comes in containing valid Signa data, no Acoustic track is created. This represents a loss of capability since version 3.0.2.0. This STR is related to INRI STR 3020000296. CCB comments/history 12/16/96 LCCB action, transferred from DJ00053.

Action:

INRI #: 30200000599

DU00624 Boot background processes also started at session.

Problem: Created boot background processes in seginfo: [processes]
\$boot:jmcis:jmcis:jmcis:/h/acctgrps/jmcis/scripts/.cshrc
:bg:<executable name> processes are executing before a user
logs in and the same processes are started, owned by the
username, after a user logs in.

Action:

INRI #: 30200000649

DU00630 No pop-up menu in ELINT Track Edit Window if view only
mode is set.

Problem: When a particular user is set, via secman, to view tracks mode
the pop-up menu in any Emitter track edit window cannot be
accessed. This is beyond the intent of preventing unwarranted
track deletions. Valuable user information is listed in the Emitter
Track History Window, accessible only via the Edit window pop-
up menu. Note that the Platform Track History Window is not
restricted in this manner. Require access to the Emitter track edit
window pop-up menu regardless of a user's track edit privileges.
Need for change: Problem identified during UB 2.2.0.5 testing in
Lab 160. CCB comments/history 1/15/97; UB08029 validated as
open in 3.0.2.3 per S Thode.

Action:

INRI #: 30200000651

DU00634 Dependence between new ELINT track and source table.

Problem: When attempting to create a new ELINT track an "invalid data"
warning results if the Enter First Report window's source entry
does not exactly match an existing entry in the source table. This
behavior is counter to all earlier versions of UB and must be
removed. Need for change: Problem identified during UB 3.0.1.3
testing the week of 20 May 96. CCB comments/history 1/15/97;
UB08888 validated as open in 3.0.2.3 per S Thode.

Action:

INRI #: 30200000653

DU00635 Unable to set NIPS/TBMD host.

Problem: Permissions are improperly assigned for the set NIPS TBMD host function in the sysadmin modules Comms menu. Any attempt to change the setting from the default "jots0" does not take effect. Need for change: Problem identified during UB 3.0.1.3 testing the week of 20 May 96. CCB comments/history 1/15/97; UB08889 validated as open in 3.0.2.3 per S Thode.

Action:

INRI #: 30200000654

DU00636 Hultec TDA is broken.

Problem: The Hultec TDA pop-up menu option (accessed via an ELINT Track Edit Window) does not function even if every contact report in the ELINT track matches data in the Hultec database. The expected Hultec Candidates Window simply does not appear. Need for change: Problem identified during UB 3.0.1.3 testing the week of 20 May 96. CCB comments/history 1/15/97; UB08891 validated as open in 3.0.2.3 per S Thode.

Action:

INRI #: 30200000655

DU00637 Inability to access the ELINT Candidates Window.

Problem: Any attempt to open an ELINT Candidates Window in the Solaris 2.3 version of UB 3.0.1.3 fails. This includes Summary window RESOLVE and COMPARE functions as well as Candidates pop-up menu options from edit windows. ELINT analysis is impossible without this window. Need for change: Problem identified during UB 3.0.1.3 testing the week of 20 May 96. CCB comments/history 1/15/97; UB08892 validated as open in 3.0.2.3 per S Thode.

Action:

INRI #: 30200000656

DU00658 Comms UCP/CMP modification needed for the upcoming multi-platform (3.0.2, 3.1, NT) OT.

Problem: This is a place holder STR for any Comms UCP/CMP modification needed for the upcoming OT. Specific requirements can be added to this STR or put into another STR and referenced in this STR.

Action:

INRI #: 30200000608

DU00667 Year 2000, function get_dtg.

Problem: Year 2000, function get_dtg in
Comms/src/Interfaces/TTabular/get_dtg.c

Action:

INRI #: 30200000618

DU00671 Year 2000 problem function get_year.

Problem: Year 2000 problem function get_year.
Comms/src/Interfaces/v6ttyIf/get_date.c

Action:

INRI #: 30200000622

DU00672 Year 2000 problem, function next_date

Problem: year 2000 problem, function next_date.
Comms/src/Interfaces/v6ttyIf/next_date.c

Action:

INRI #: 30200000623

DU00674 Year 2000 problem, function builddtg.

Problem: Year 2000 problem, function BuildDtg.
Comms/src/Decoders/libs/Gold/GoldParsers.c

Action:

INRI #: 30200000625

DU00675 Year 2000 problem, function zfcdat().

Problem: Year 2000 problem, function zfcdat().
Comms/src/Interfaces/Kermit/sys/ckufio.c

Action:

INRI #: 30200000626

DU00680 Year 2000 problem, function formDTGKey().

Problem: Year 2000 problem, function formdtgkey().
Tdbm/ArchDB/libs/ArchDB/archDBlib.c problem:
sprintf(key, "%04d%02d%02d%02d%02d", gmt->tm_year, gmt->tm_mon, gmt->tm_mday, gmt->tm_hour, gmt->tm_min, gmt->tm_sec);

Action:

INRI #: 30200000631

DU00710 Need official DISA delivery of UBSD for ELINT correlation.

Problem: NRaD needs the official UB Secret Data (UBSD) tape from DISA for DII COE 3.0/UB 3.0.2.3 to perform ELINT testing on the DISA-delivered software. The information contained in the UBSD segment tape are: (classified) AEN tables, ELNOT version tables, ELINT decoders, HFDF, AEN tables.

Action:

INRI #: 30200000769

NR00002 Launching NrtiComms as the server launches nrti_ui control window.

Problem: Launching NrtiComms as the server launches nrti_ui control window to the host machine:0.0 display and not the user control display.

Action:

INRI #: 30200000577

NR00012 GENSER NRTI auto-delete not working (see release notes).

Problem: Sanitized NRTI tracks in GENSER JMCIS do not autodelete at the user-specified time as they do in SCI JMCIS, requiring manual intervention for track management. No problems with autodelete of NRTD tracks has been experienced to date in SCI JMCIS. Ref C6F 181551Z Dec 96 para 6b.

Action: This STR is invalid due to incorrect set up on the GENSER side (i.e., operator failed to setup the correct SOURCE-XREF entry of COPY plus command name from the SCI side).

INRI #: 30200000587

NR00013 NRTD delete messages not processed (see release notes).

Problem: A variety of NRTD messages are sent for SCI JMCIS to GENSER JMCIS via RM. GENSER JMCIS executes all of these appropriately except NRTD delete messages. Ref C6F 181551Z Dec 96 para 6c.

Action: This STR is invalid due to incorrect set up on the GENSER side (i.e., operator failed to setup the correct SOURCE-XREF entry of COPY plus command name from the SCI side).

INRI #: 30200000588

NR00014 Allow user modification of NRTI transition tables.

Problem: Modify SCI JMCIS/NRTD interface to allow local editing of transition tables. Ref C6F 181551Z Dec 96 para 7b.

Action:

INRI #: 30200000589

UB08524 Decoders cannot handle year 2000 transition.

Problem: When the year changes to 2000, decoders/Tdbm converts inputs in the year 00 (2000) to 9 (1999). Depending on filter settings, input data may be discarded. At best, current data is put into track history and is not displayed as the current position. Must be fixed prior to year 2000. CCB comments/history 2/7/96; closed; withdrawn by originator, invalid STR per R Stone.

Action:

INRI #: 30200000645

UB09023 Year 2000 not processed as leap year.

Problem: JMCIS/UB 3.0.1.1 did not process a 29 Feb history point for the year 2000, but it did for the year 1996. Run #1 system time was set to 030003Z Mar 96. The track contained 4 history points, one point for 28 & 29 Feb, 1 & 2 March. All history points were processed normally. Run #2 set system time to "030003Z Mar 00", the next leap year (2000). The same message was input with the following results: all four history points were processed, but the 292359Z Feb history point was changed to 012359Z Mar. It follows that since the message was properly processed for leap year 1996, but not for leap year 2000, that the year 2000 is not recognized as a leap year by JMCIS. Any year ending in "00" that is divisible by 400 is a leap year. This message should have been processed identically for both runs. (Ref: National Institute for Standards and Technology (NIST), (303) 497-3276.)

Action:

INRI #: 30200000648

30200000545 Overlays core dump, depending on scale in use, on Solaris 2.5.1 OS.

Problem: Overlays core dump, depending on scale in use, on Solaris 2.5.1 OS. Occurs when the unit of measure (lower right corner of chart) for width is set to KM or MI and position information is set to UTM, MGR or lat/long (dd:mm:ss.ss/ddd:mm:ss.ss format). If set to any combination of these units and an attempt is made to edit an overlay object a signal 11 is received. When run by hand receive "segmentation fault (core dump)". Closed: see test comments.

Action:

30200000699 Mps/Tdbm/GenBcst fix.

Problem: This fix is currently being worked and will be made available to the DII COE team. The bug causes master Tdbm (on Solaris) to core dump when it receives a GenBcst of tracks where the position report DTG (imbedded in the raw line) does not match the RAD report DTG. Since RAD DTGs are rounded to the minute, this should happen 59 of 60 times with TRE 10.0 or TIBS tracks (that are reported and stored with precision of seconds). The fix will affect Comms and Tdbm.

Action:

30200000777 Place holder for PLIS STR.

Problem: Place holder for PLIS STR.

Action:

30200000779 Place holder for NCTSI STR.

Problem: Place holder for NCTSI STR.

Action:

30200000812 Processing of the TACREP message, field 3 sets contains alternate field contents.

Problem: In the processing of the TACREP message, field 3 of the AIROP, GNDOP, and MAROP sets contains alternate field contents. Thus field 3 can contain either (1) target/product designator, (2) country code, or (3) HFDF target set identifier. I believe in cases (1) and (2) the information contained in field 3 is stored in the flag field of the track structure. The problem is that the entry lists for the TACREP field 3 do not match the country code list (entry list 59) used by UB. Thus an entry of CH in field 3 really means TAWAIN per the entry list for field 3, where as CH means China to UB.

Action:

4. Impact on Developers

4.1 Application Segments

A. Segment developers will be required to:

- ! Change references from **AlibM.sl@** to **AlibMlib.sl@**
- ! For map capabilities, use NIMA Joint Mapping Toolkit (JMTK) based on Joint Mapping Toolkit Visualization Component 3.0.2.5 for the 3.0.2.5 delivery. Any previous versions of JMTK are totally incompatible with UB 3.0.2.5.
- ! Recompile and relink on the appropriate platform(s) with the DII COE and API libraries. Recompile and relink are required when upgrading from UB 3.0.2.4 or earlier build.
- ! Use the delivered version of DII COE ConvertSeg and VerifySeg tools to create and verify segments.

B. Bug in COEInstaller

Developers need to be aware of a bug in the COEInstaller, with respect to the environment variable \$INSTALL_DIR. This environment variable is **not** set until **after** the DEINSTALL script has run. Therefore, if developers use the \$INSTALL_DIR variable without setting it up in their DEINSTALL script, the deinstall will fail.

The problem arises if developers use their \$INSTALL_DIR as follows, without the variable being previously initialized:

```
if ($?INSTALL_DIR) then
    setenv XXX_HOME    $INSTALL_DIR
else
    setenv XXX_HOME    /h/XXX
endif
```

When more than one segment is deinstalled at the same time, the \$INSTALL_DIR for the last segment deinstalled is used rather than the home directory of the developers segment. Therefore, it is necessary to manually set the \$INSTALL_DIR variable in the DEINSTALL

script by adding this code at the beginning of the script:

```
unset INSTALL_DIR
set INSTALL_DIR = /h/XXX
```

where XXX = the name of the segment directory

4.2 HP-UX 10.20 OS Considerations

A. umask Bug Corrected

In the Impact on Developers section of the UB 3.0.2.4 VDD, developers were directed to remove the umask 022 in /sbin/rc for HP-UX 10.10 due to a bug reported by HP. This problem has been corrected. Under no circumstance should the umask be removed for HP-UX 10.20.

B. Device Name Changes

After loading the HP-UX 10.20 OS, log in as root and cd to the /dev/rmt directory. Note that the names of the tape devices are not the same as HP-UX 9.0.7.

! The ID of the DAT drive is c0t30BESTx for TAC-3 and C1t30BESTx for J210 vice the IDs of 3m and 3mn in the old HP-UX 9.0.7.

! In most cases, there are device IDs of 0m, 0mn, 0mb and 0mnb. These are also IDs for the DAT drives.

! The device IDs that end in the letter **Ab**@ stand for **ABERKELEY**@ and the ones without the **Ab**@ stand for **AAT&T**@. For UB/JMCIS, use the DAT drive IDs that end with the letter **Ab**@. Failure to do so will cause problems when creating segments or pulling files from DAT tapes.

C. Compressed/Non-compressed Files

When the 10.20 HP-UX is loaded it will auto-detect whether the DAT drive has its **Acompression**@ switch set to ON. If ON, it will configure all tar files to the DAT drive in compressed format. If that tape is used in a DAT drive which does not have a compression switch, or does not have the switch set ON, a **Atar read error**@ occurs.

A test tar to a DAT tape, after loading 10.20, and then a tar tvf on a 9.0.7 system is recommended. If the DAT tape drive is generating compressed tar files then create a DAT drive device ID in /dev/rmt that will not use compression.

1. Login as root and start up **Asam**@

2. Select **P**eripheral Drives,@then select **T**ape Drives.@
3. Under **T**ape Drive Admin@highlight the DAT drive and select **A**ction,@ then select **C**reate Devices Files.@
4. In **C**reate Devices Files,@select **C**reate Custom Devices Files.@
5. When the window opens:
 - a. Set **D**ensity@to DDS2.
 - b. Select Berkeley in the AT&T/Berkeley Semantics sub-window.
 - c. Set compress mode to OFF
 - d. Select **A**OK.@

This will create a DAT drive device ID of c0t30DDS2b in /dev/rmt. Next, create a DAT drive device ID with the **n**o rewind@option set.

1. Repeat steps 1-5 above, and add the following step to step 5.
2. Turn off the **R**ewind at Close@option.

This will create a DAT drive device ID in /dev/rmt of c0t30DDS2nb.

4.3 DII COE 3.0.1.0 Kernel Considerations

A. HP-UX 9.0.7-based Accounts/Profiles Problem Fixed

In the Impact on Developers section of the UB 3.0.2.4 VDD, developers were directed to run **A**sconvert -r@after the DII-COE kernel tape was loaded, due to problems with JPL Accounts and Profiles. This problem has been corrected in DII COE 3.0.1.0.

B. Disk Manager Problem Fixed

In the Impact on Developers section of the UB 3.0.2.4 VDD, developers were directed to not use **A**iskManager@ under **A**Hardware@ in sysadmin. This problem has been corrected in DII COE 3.0.1.0.

C. Accounts/Profiles Password Problem

A problem has been discovered with the way JPL Accounts & Profiles passwords are created, which could cause the operator to become **A**ocked@ out of the system. To prevent this from happening, the following steps should be executed as soon as the DII COE kernel tape is installed:

1. Login to sysadmin.
2. Select the **AMan** with the ? **A** icon (fourth from the left) in the CDE toolbar at the bottom of the display.
3. Ensure that **ASA_Default@** is listed in the **ASelected Profiles@** section of the Profile Selector Window, and select OK.
4. After **SA_Default** profile is set, select the **AFile Cabinet@** icon (third from the right) in the CDE toolbar at the bottom of the display.
5. Select the **ADII_APPPS@** icon.
6. Select the **ASA_Default@** icon.
7. Select the **ASAM@** icon.
8. After SAM launches, select the **AAuditing and Security@** icon.
9. Select the **ASystem Security Policies@** icon.
10. Select the **APassword Aging Policies@** option.
11. Select **ADisable@** and then OK.
12. Select OK in the **ASystem Security Policies@** window.
13. Exit SAM.

D. Security Alockout@ Override

A new security feature has been added in DII COE 3.0.1.0, which will **Apermanently@** lock out a user account if the incorrect password is entered more than four times in a row. If this happens, complete the following steps:

1. Login to secman.
2. Select the **AMan** with the ? **A** icon (fourth from the left) in the CDE toolbar at the bottom of the display.
3. Ensure that **ASSO_Default@** is listed in the **ASelected Profiles@** section of the Profile Selector Window, and select OK.
4. After **SSO_Default** profile is set, select the **AFile Cabinet@** icon (third from the right) in the CDE toolbar at the bottom of the display.
5. Select the **ADII_APPPS@** icon.

6. Select the ASSO_Default icon.
7. Select the AUnlock User icon.
8. Select the A system name from the AHost sub-window.
9. When all the accounts are displayed in the AUser sub-window, look for the user with the AL symbol in front of it.
10. Highlight the user and then select AClear Login Failure from the AUser pull down window at the top of the menu.

This will clear the Alockout for that user account.

E. xterm Capability Removed

In DII COE 3.0.1.0 (HP-UX 10.20), the capability to generate an xterm window using ASwitch to Default behavior (alt-shift-ctrl-1) has been removed.